

Caminos Fire - CAFS



Engine Capacity

- 600 gal water
- Pump & Roll
- 250/120 CAFS (250 gpm, 120 cfm)
- CAF & Class A Foam
- Bumper Turret – 60-80 ft CAF stream
- Crew – 3 – Structure Trained
- Dual Foam Lines – Front & Rear



Deep seated extinguishment/mop up - tires

Compressed Air Foam

For additional information on CAF in the wildland arena, visit:

<http://CaminosFire.com> or

<http://CompressedAirFoam.com>

For more foam training – see:

<http://AFoamAcademy.com>

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AZ-TDC



Compressed Air Foam Engine

What CAF can do on a wildland fire.



CAF for the Wildland Arena

Phone: 520.576.1639

Region 3

Dispatch – AZ-TDC

Why CAF/A Foam Works



Foam sticks to & soaks into combustibles.

Why water doesn't work:

- Water repels Carbon (ordinary combustibles – wildland fuels)
- High Surface tension (water will not soak in)
- Has low Surface:Mass Ratio (drops protect inside water – water is wasted)

CAF/A Foam corrects these problems.

Add foam concentrate (solution)

- Solution attracts carbon (sticks)
- Reduced surface tension (soaks in)

Add Air (CAF or aspirated)

- Drops stretch to bubbles
- Increased Surface:Mass Ratio
- Increased Heat Absorption

CAF vs Aspirated

Aspirated – solution pumped to nozzle. Low energy foam. Can be LX (wet), MX or HX (dry)



CAF – foam made in the engine. LX foam (wet or fluid). Very high energy.



CAF - Tactical Uses

STRUCTURE PROTECTION

- Pre-Treat Structure (paint – wet/fluid) (photo)
- Pre-Treat Surrounding Fuels (slow the fire)



Catch Fire Brands – Prevent Ignition

CAF - Tactical Uses (con't)

STRUCTURE FIRES

- INSERT FOAM FROM EXTERIOR
- Extinguish or knock down



SUPPORT:

- Burn Out Operations
- Sprinklers Back Up on Ignition
- Shelter wrapped structures

LAY FOAM LINES

Single, dual, down hill



HOSE LAYS

Pump CAF 1000's of feet

AIR BLOWERS

Use hose lines as leaf blowers, blow fire line, etc.

FIRE CONTROL

Control surface fires/reduce torching – lay 60-80' blankets applied by bumper turret